

FORM PTO-1449	U S DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. UC053 001A	APPLICATION NO. 09/770,169
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT Saxon et al	
(USE SEVERAL SHEETS IF NECESSARY)		FILING DATE January 26, 2001	GROUP Unknown

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U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)

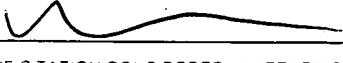
FOREIGN PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
						YES

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
<p>V33</p> <p>↓</p>	1	Aruffo et al., "The CD40 Ligand , gp39, is Defective in Activated T Cells from patients with X-Linked Hyper-IgM Syndrome" <u>Cell</u> 72:291-300 (1993)
	2	Ballantyne et al., "Antibody class Switch recombinase activity is B cell stage specific and functions stochastically in the absence of 'targeted accessibility' control" <u>Int. Immunol.</u> 7:963-974 (1997)
	3	Borggrefe et al., "A B-cell-specific DNA Recombination Complex" <u>J. Biol. Chem.</u> 273:17025-17035 (1998)
	4	Bottaro et al., "S region transcription per se promotes basal IgE class switch recombination but additional factors regulate the efficiency of the process" <u>EMBO J.</u> 13:665-674 (1994)
	5	Casellas et al., "Ku80 is required for immunoglobulin isotype switching" <u>EMBO J.</u> 17:244-2411 (1998)
	6	Cherry and Baltimore, "Chromatin remodeling directly activates V(D)J recombination" <u>Proc. Natl. Acad. Sci. USA</u> 96:10788-10793 (1999)
	7	Coffman et al., "Mechanism and Regulation of Immunoglobulin Isotype Switching" <u>Adv. Immunol.</u> 54:229-270 (1993).
	8	Cogne et al., "A Class Switch Control Region at the 3' End of the Immunoglobulin Heavy Chain Locus" <u>Cell</u> 77:737-747 (1994)
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EXAMINER	DATE CONSIDERED
<i>W</i>	<i>1/31/01</i>
EXAMINER: INITIAL IF CITATION CONSIDERED. WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.	

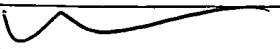
FORM PTO-1449 <i>10</i> APR 15 2001 INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(USE SEVERAL SHEETS IF NECESSARY)</i>	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY DOCKET NO. UC053.001A	APPLICATION NO. 09/770,169
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EXAMINER INITIAL <i>M3</i>	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)
10	Daniels and Lieber, "Strand specificity in the transcriptional targeting of recombination at immunoglobulin switch sequences" <u>Proc. Natl. Acad Sci. USA</u> 92:5625-569 (1995)
11	Dunnick et al., "DNA sequences at immunoglobulin switch region recombination sites" <u>Nucleic Acids Res.</u> 21:365-372 (1993)
13	Esser and Radbruch, "Immunoglobulin Class Switching: Molecular and Cellular Analysis" <u>Annu. Rev. Immunol.</u> 8:717-735 (1990)
14	Gauchat et al., "Structure and Expression of Germline ϵ Transcripts in Human B Cells Induced by Interleukin 4 to Switch to IgE Production" <u>J. Exp. Med.</u> 172:463-473 (1990)
15	Gritzmacher, "Molecular Aspects of Heavy-Chain Class Switching" <u>Crit. Rev. Immunol.</u> 9:173-299 (1989)
16	Hartiman et al., "Immunoglobulin Class Switch Recombination" <u>Annu. Rev. Immunol.</u> 11:361-384 (1993)
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21	Kawabe et al., "The Immune Responses in CD40-Deficient Mice: Impaired Immunoglobulin Class Switching and Germinal Center Formation" <u>Immunity</u> 1:167-178 (1994)
22	Kinoshita et al., "Target Specificity of Immunoglobulin Class Switch Recombination Is Not Determined by Nucleotide Sequences of S Regions" <u>Immunity</u> 9:849-858 (1998)
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24	Leung and Maizels, "Regulation and Targeting of Recombination in Extrachromosomal Substrates Carrying Immunoglobulin Switch Region Sequences" <u>Mol. Cell. Biol.</u> 14(2):1450-1458 (1994)
25	Leung and Maizels, "Transcriptional regulatory elements stimulate recombination in extrachromosomal substrates carrying immunoglobulin switch-region sequences" <u>Proc. Natl. Acad. Sci. USA</u> 89:4154-4158 (1992)
26	Li et al., "Developmental Specificity of Immunoglobulin Heavy Chain Switch Region Recombination Activities" <u>Mol. Immunol.</u> 34:201-208 (1997)

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	<p>28 Lopez et al., "Promotion of double-strand break repair by human nuclear extracts preferentially involves recombination with intact homologous DNA" <u>Nucleic Acids Res.</u> 15:6813-6826 (1987)</p>
	<p>29 Lopez et al., "Directional recombination is initiated at a double strand break in human nuclear extracts" <u>Nucleic Acids Res.</u> 20:501-506 (1992)</p>
	<p>30 Lorenz et al., "Switch Transcripts in Immunoglobulin Class Switching" <u>Science</u> 267:1825-1828 (1995)</p>
	<p>31 Manis et al., "Ku70 Is Required for Late B Cell Development and Immunoglobulin Heavy Chain Class Switching" <u>J. Exp. Med.</u> 187:2081-2088 (1998)</p>
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	<p>33 Matsuoka et al., "Switch Circular DNA Formed in Cytokine-Treated Mouse Splenocytes: Evidence for Intramolecular DNA Deletion in Immunoglobulin Class Switching" <u>Cell</u> 62:135-144 (1990)</p>
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	<p>35 Mills et al., "Sequences of human immunoglobulin switch regions: implications for recombination and transcription" <u>Nucleic Acids Res.</u> 18:7305-7316 (1990)</p>
	<p>36 Nikaido et al., "Switch region of immunoglobulin Cμ gene is composed of simple tandem repetitive sequences" <u>Nature</u> 292:845-848 (1981)</p>
	<p>37 Ott et al., "Immunoglobulin heavy chain switch region recombination within a retrieval vector in murine pre-B cells" <u>EMBO J.</u> 6:577-587 (1987)</p>
	<p>38 Pan et al., "Regulation of the promoter for human immunoglobulin γ3 germ-line transcription and its interaction with the 3' α enhancer" <u>Eur. J. Immunol.</u> 30:1019-1029 (2000)</p>
	<p>39 Pfeiffer and Vielmetter, "Joining of nonhomologous DNA strand breaks in vitro" <u>Nucleic Acids Res.</u> 16:907-924 (1988)</p>
	<p>40 Qiu et al., "Iα exon-replacement mice synthesize a spliced HPRT-Cα transcript which may explain their ability to switch to IgA. Inhibition of switching to IgG in these mice" <u>Int. Immunol.</u> 11:37-45 (1999)</p>
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	45 Stavnezer, J., "Molecular Processes that regulate Class Switching" <u>Current Topics in Microbiol. & Immunol.</u> 245:127-168 (2000)
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	47 Stavnezer et al., "Immunoglobulin heavy-chain switching may be directed by prior induction of transcripts from constant-region genes" <u>Proc. Natl. Acad. Sci. USA</u> 85:7704-7708 (1988)
	48 Stavnezer, J., "Antibody Class Switching" <u>Adv. Immunol.</u> 61:79-90 (1996)
	49 Stavnezer-Nordgren and Sirlin, "Specificity of immunoglobulin heavy chain switch correlates with activity of germline heavy chain genes prior to switching" <u>EMBO J.</u> 5:95-102 (1986)
	50 Takahashi et al., "Structure of Human Immunoglobulin Gamma Genes: Implications for Evolution of a Gene Family" <u>Cell</u> 29:671-679 (1982)
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	52 Tsukamoto et al., "Silencing factors participate in DNA repair and recombination in <u>Saccharomyces cerevisiae</u> " <u>Nature</u> 388:900-903 (1997)
	53 Von Schwedler et al., "Circular DNA is a product of the immunoglobulin class switch rearrangement" <u>Nature</u> 345:452-455 (1990)
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✓	57 Zhang and Cheah, "Cell-Free Recombination of Immunoglobulin Switch-Region DNA with Nuclear Extracts" <u>Clin. Immunol.</u> 94:140-151 (2000)
✓	58 Zhang et al., "A selective defect in IgG2b switching as a result targeted mutation of the Ig γ 2b promoter and exon" <u>EMBO J.</u> 12:3529-3537 (1993)

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FORM PTO-1449 <i>01/02</i>	U S DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO UC053.001A	APPLICATION NO. 09/770,169
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<i>M21</i>	59	Zhang et al., "Switch Circles from IL-4-Directed ϵ Class Switching from Human B Lymphocytes" <i>J. Immunol.</i> 152:3427-3435 (1994)
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<i>M21</i>	61	Zhang et al., <i>Regulation of class switch recombination of the immunoglobulin heavy chain genes</i> . In: <i>Immunoglobulin Genes</i> , Second Edition, T. Honjo and F.W. Alt, eds.(1995), pp 235-265

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